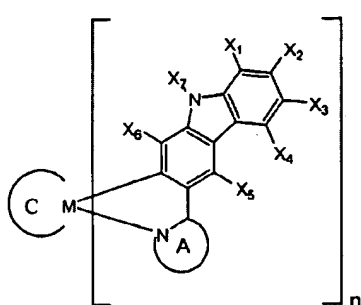


Preliminary Amendment  
Attorney Docket No. 053474

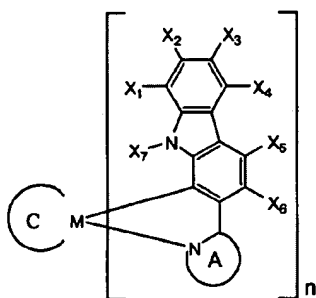
**AMENDMENTS TO THE CLAIMS**

The following listing of claims replaces all prior versions of claims in the application.

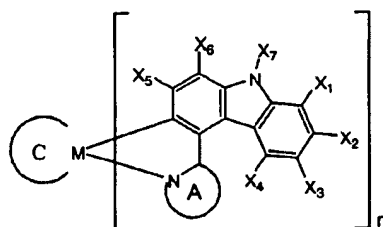
1. (Original): A metal coordination compound-containing copolymer comprising:  
a metal coordination compound monomer unit represented by any one of Formulae (1) to  
(12),



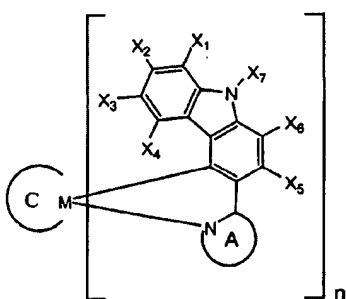
(1)



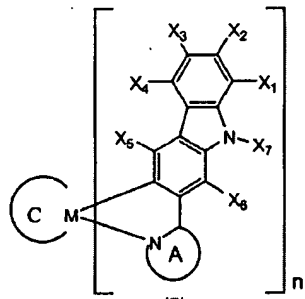
(2)



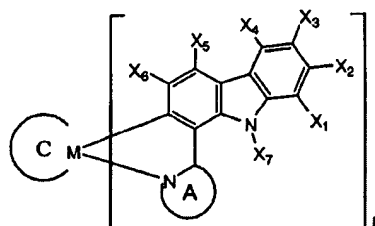
(3)



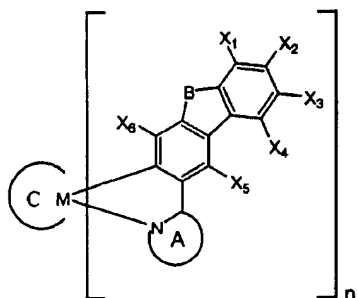
(4)



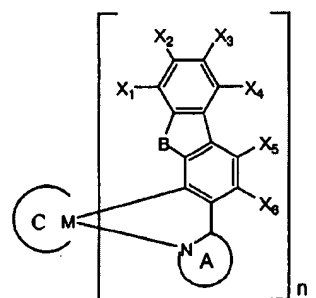
(5)



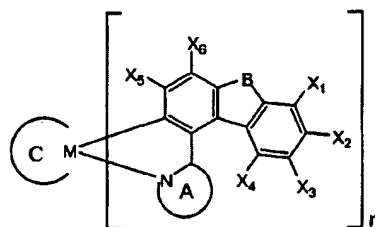
(6)



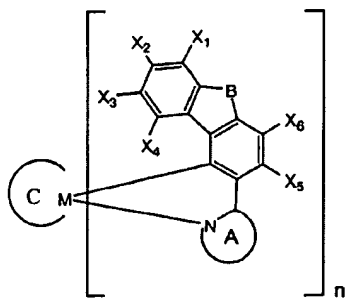
(7)



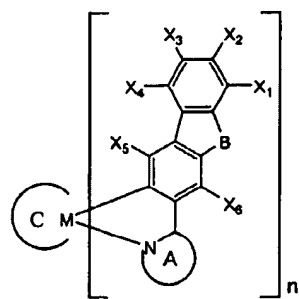
(8)



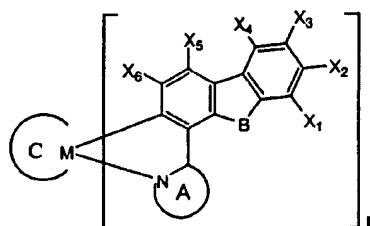
(9)



(10)



(11)



(12)

B : >O, >S, >C=O, >SO<sub>2</sub>, >CR<sub>2</sub>

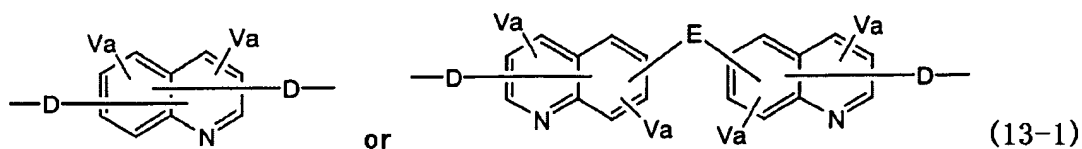
(in the formulae, M is Ir, Rh, Ru, Os, Pd, or Pt, and  $\underline{n}$  is 1 or 2; ring A is a cyclic compound containing a nitrogen atom bonded to M;  $X_1$  to  $X_7$  and R are independently substituents selected from the group consisting of  $-R^1$ ,  $-OR^2$ ,  $-SR^3$ ,  $-OCOR^4$ ,  $-COOR^5$ ,  $-SiR^6R^7R^8$ , and  $-NR^9R^{10}$  (here,  $R^1$  to  $R^{10}$  are a hydrogen atom, a halogen atom, a cyano group, a nitro group, a C1 to C22 straight-chain, cyclic, or branched alkyl group or a corresponding halogen-substituted alkyl group in which a part or all of the hydrogen atoms are substituted by a halogen atom, a C6 to C30 aryl group, a C2 to C30 heteroaryl group, or a C7 to C30 aralkyl group, or a corresponding halogen-substituted aryl group, halogen-substituted heteroaryl group, or halogen-substituted aralkyl group, in which a part or all of the hydrogen atoms are substituted by a halogen atom, and  $R^1$  to  $R^{10}$  may be identical to or different from each other),  $X_1$  to  $X_7$  may be identical to or different from each other, and ring A may have a substituent that is the same as the groups defined by  $X_1$  to  $X_7$ ; ring C is a compound that is bonded to M and that bonds to a linking group; and ring C may have a substituent that is the same as the groups defined by  $X_1$  to  $X_7$ ); and

at least one type of monomer unit selected from the group consisting of a substituted or unsubstituted quinoline monomer unit, a substituted or unsubstituted arylene and/or heteroarylene monomer unit, a substituted or unsubstituted branched monomer unit, and a substituted or unsubstituted conjugated monomer unit.

2. (Original): The metal coordination compound-containing copolymer according to Claim 1, wherein the copolymer comprises

a metal coordination compound monomer unit represented by any one of the Formulae (1) to (12),

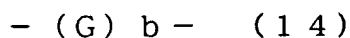
a substituted or unsubstituted quinoline monomer unit represented by Formulae (13-1),



(in the formulae, a plurality of V are independently substituents selected from the group consisting of  $-R^1$ ,  $-OR^2$ ,  $-SR^3$ ,  $-OCOR^4$ ,  $-COOR^5$ , and  $-SiR^6R^7R^8$  (here,  $R^1$  to  $R^8$  are a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), may be identical to or different from each other, and are bonded to a substitutable position of a quinoline residue, and each  $\underline{a}$  is independently an integer of 0 to 3; D is selected from the group consisting of a single bond and arylene; and E is a divalent linking group selected from the group consisting of a single bond,  $-O-$ ,  $-S-$ ,  $-C(O)-$ ,  $-S(O)-$ ,  $-S(O_2)-$ ,  $-W-$ ,  $-(-O-W-)m-O-$  ( $\underline{m}$  is an integer of 1 to 3), and  $-Q-$  [in the formulae, W is a divalent group selected from the group consisting of  $-Ra-$ ,  $-Ar'-$ ,  $-Ra-Ar'-$ ,  $-Ra'-O-Ra'-$ ,  $-Ra'-C(O)O-Ra'-$ ,  $-Ra'-NHCO-Ra'-$ ,  $-Ra-C(O)-Ra-$ ,  $-Ar'-C(O)-Ar'-$ ,  $-Het'-$ ,  $-Ar'-S-Ar'-$ ,  $-Ar'-S(O)-Ar'-$ ,  $-Ar'-S(O_2)-Ar'-$ , and  $-Ar'-Q-Ar'-$ ; Ra is alkylene, Ar' is arylene, each Ra' is independently a group selected from the group consisting of alkylene, arylene, and a mixed alkylene/arylene group, Het' is heteroarylene, and Q is a divalent group containing a quaternary carbon]], and

a substituted or unsubstituted arylene and/or heteroarylene monomer unit,

the monomer units each being bonded via a linking group represented by Formula (14),

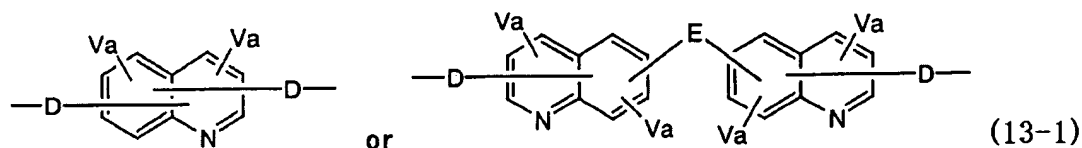


(in the formula, G is a divalent group selected from the group consisting of  $-O-$ ,  $-R-O-R-$ ,  $-S-$ ,  $-NR-$ ,  $-CR_2-$ ,  $-SiR_2-$ ,  $-SiR_2-O-SiR_2-$ , and  $-SiR_2-O-SiR_2-O-SiR_2-$  (here, R is a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), and  $\underline{b}$  is an integer of 0 or 1).

3. (Original): The metal coordination compound-containing copolymer according to Claim 1, wherein the copolymer comprises

a metal coordination compound monomer unit represented by any one of the Formulae (1) to (12),

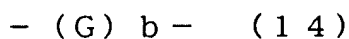
a substituted or unsubstituted quinoline monomer unit represented by Formulae (13-1),



(in the formulae, a plurality of V are independently substituents selected from the group consisting of  $-R^1$ ,  $-OR^2$ ,  $-SR^3$ ,  $-OCOR^4$ ,  $-COOR^5$ , and  $-SiR^6R^7R^8$  (here,  $R^1$  to  $R^8$  are a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), may be identical to or different from each other, and are bonded to a substitutable position of a quinoline residue, and each  $a$  is independently an integer of 0 to 3; D is selected from the group consisting of a single bond and arylene; and E is a divalent linking group selected from the group consisting of a single bond,  $-O-$ ,  $-S-$ ,  $-C(O)-$ ,  $-S(O)-$ ,  $-S(O_2)-$ ,  $-W-$ ,  $-(O-W-)_m-O-$  ( $m$  is an integer of 1 to 3), and  $-Q-$  [in the formulae, W is a divalent group selected from the group consisting of  $-Ra-$ ,  $-Ar'-$ ,  $-Ra-Ar'-$ ,  $-Ra'-O-Ra'-$ ,  $-Ra'-C(O)O-Ra'-$ ,  $-Ra'-NHCO-Ra'-$ ,  $-Ra-C(O)-Ra-$ ,  $-Ar'-C(O)-Ar'-$ ,  $-Het'-$ ,  $-Ar'-S-Ar'-$ ,  $-Ar'-S(O)-Ar'-$ ,  $-Ar'-S(O_2)-Ar'-$ , and  $-Ar'-Q-Ar'-$ ; Ra is alkylene, Ar' is arylene, each Ra' is independently a group selected from the group consisting of alkylene, arylene, and a mixed alkylene/arylene group, Het' is heteroarylene, and Q is a divalent group containing a quaternary carbon]), and

a substituted or unsubstituted branched monomer unit,

the monomer units each being bonded via a linking group represented by Formula (14),

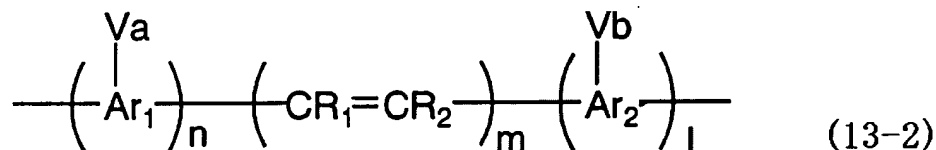


(in the formula, G is a divalent group selected from the group consisting of  $-O-$ ,  $-R-O-R-$ ,  $-S-$ ,  $-NR-$ ,  $-CR_2-$ ,  $-SiR_2-$ ,  $-SiR_2-O-SiR_2-$ , and  $-SiR_2-O-SiR_2-O-SiR_2-$  (here, R is a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), and  $b$  is an integer of 0 or 1).

4. (Original): The metal coordination compound-containing copolymer according to Claim 1, wherein the copolymer comprises

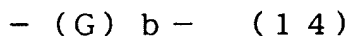
a metal coordination compound monomer unit represented by any one of the Formulae (1) to (12), and

a substituted or unsubstituted conjugated monomer unit represented by Formula (13-2),



(in the formula, Ar<sub>1</sub> and Ar<sub>2</sub> are divalent arylene and/or heteroarylene; a plurality of V, and R<sub>1</sub> and R<sub>2</sub>, are independently substituents selected from the group consisting of -R<sup>1</sup>, -OR<sup>2</sup>, -SR<sup>3</sup>, -OCOR<sup>4</sup>, -COOR<sup>5</sup>, and -SiR<sup>6</sup>R<sup>7</sup>R<sup>8</sup> (here, R<sup>1</sup> to R<sup>8</sup> are a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), may be identical to or different from each other, and are bonded to a substitutable position of an arylene or heteroarylene residue, and a and b are independently an integer of 0 or greater; R<sub>1</sub> and R<sub>2</sub> may independently be a hydrogen atom; n, m, and l are independently 0 or 1, and n, m, and l are not simultaneously 0),

the monomer units each being bonded via a linking group represented by Formula (14),

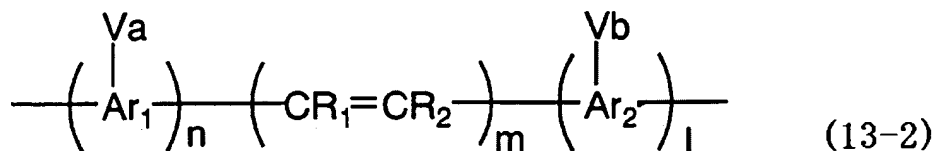


(in the formula, G is a divalent group selected from the group consisting of -O-, -R-O-R-, -S-, -NR-, -CR<sub>2</sub>-, -SiR<sub>2</sub>-, -SiR<sub>2</sub>-O-SiR<sub>2</sub>-, and -SiR<sub>2</sub>-O-SiR<sub>2</sub>-O-SiR<sub>2</sub>- (here, R is a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), and b is an integer of 0 or 1).

5. (Original): The metal coordination compound-containing copolymer according to Claim 1, wherein the copolymer comprises

a metal coordination compound monomer unit represented by any one of the Formulae (1) to (12),

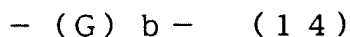
a substituted or unsubstituted conjugated monomer unit represented by Formula (13-2),



(in the formula, Ar<sub>1</sub> and Ar<sub>2</sub> are divalent arylene and/or heteroarylene; a plurality of V, and R<sub>1</sub> and R<sub>2</sub>, are independently substituents selected from the group consisting of -R<sup>1</sup>, -OR<sup>2</sup>, -SR<sup>3</sup>, -OCOR<sup>4</sup>, -COOR<sup>5</sup>, and -SiR<sup>6</sup>R<sup>7</sup>R<sup>8</sup> (here, R<sup>1</sup> to R<sup>8</sup> are a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), may be identical to or different from each other, and are bonded to a substitutable position of an arylene or heteroarylene residue, and a and b are independently an integer of 0 or greater; R<sub>1</sub> and R<sub>2</sub> may independently be a hydrogen atom; n, m, and l are independently 0 or 1, and n, m, and l are not simultaneously 0), and

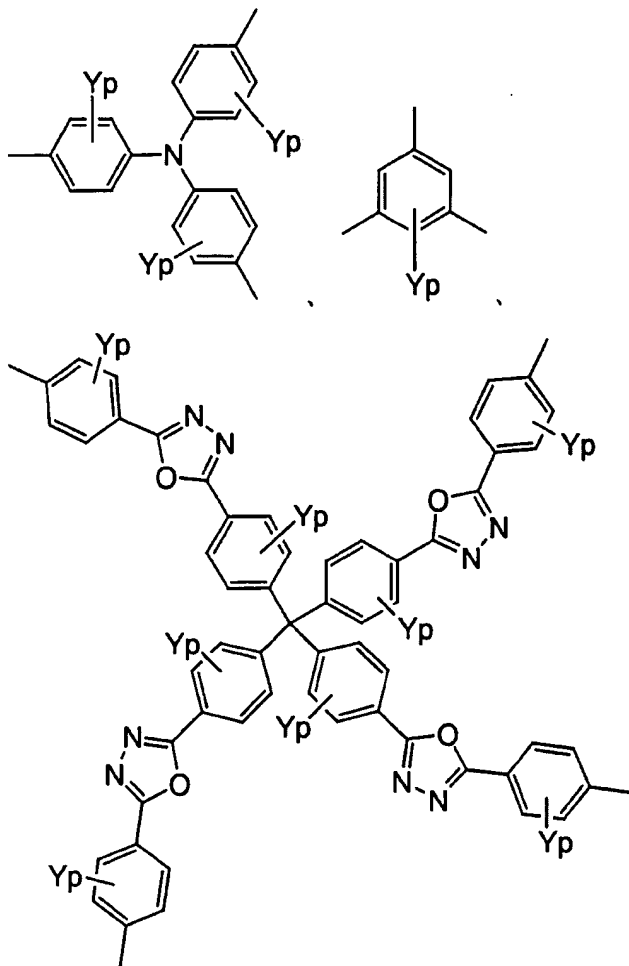
a substituted or unsubstituted branched monomer unit,

the monomer units each being bonded via a linking group represented by Formula (14),



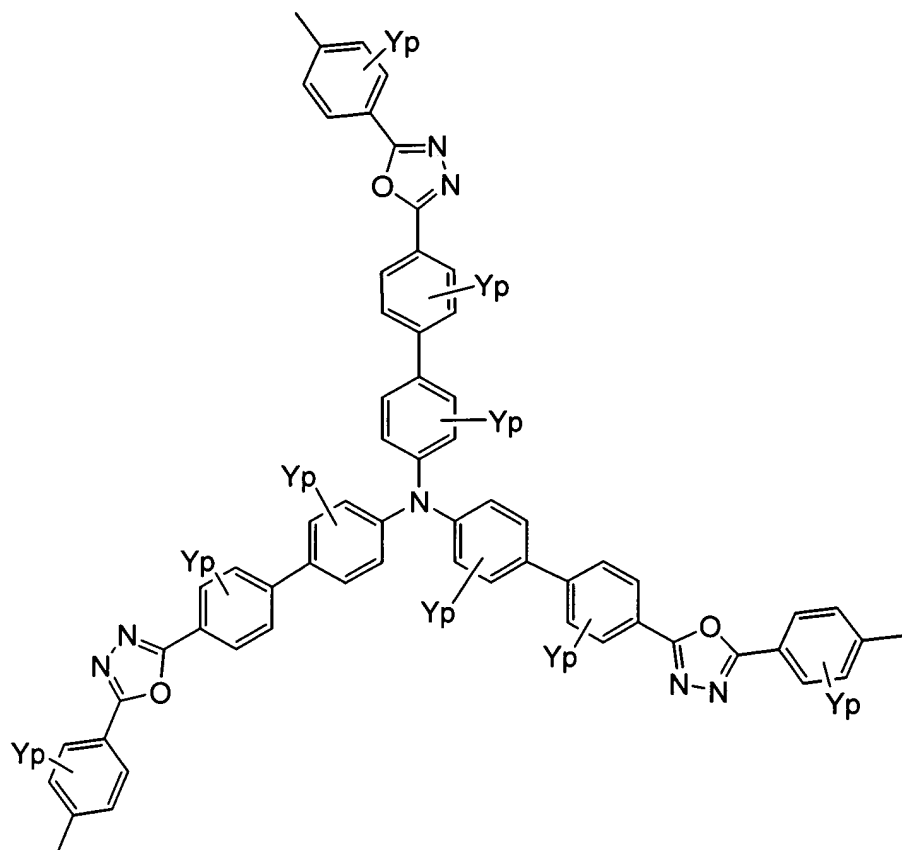
(in the formula, G is a divalent group selected from the group consisting of -O-, -R-O-R-, -S-, -NR-, -CR<sub>2</sub>-, -SiR<sub>2</sub>-, -SiR<sub>2</sub>-O-SiR<sub>2</sub>-, and -SiR<sub>2</sub>-O-SiR<sub>2</sub>-O-SiR<sub>2</sub>- (here, R is a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), and b is an integer of 0 or 1).

6. (Currently amended): The metal coordination compound-containing copolymer according to ~~any one of Claims 1, 3, and 5~~ Claim 1, wherein the substituted or unsubstituted branched monomer unit is a branched monomer unit selected from the group consisting of Formulae (15):

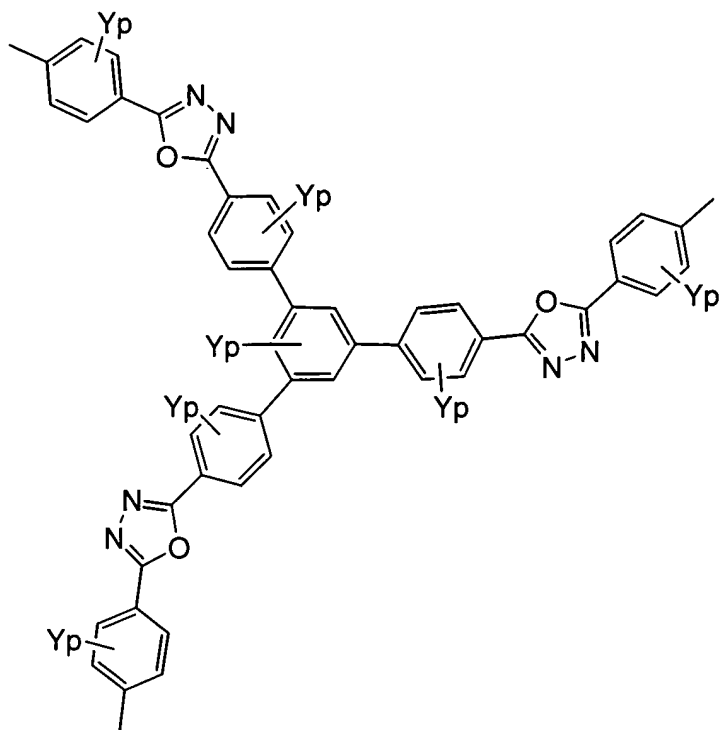


( 1 5 )





or



(in the formulae, a plurality of Y are substituents selected from the group consisting of  $-R^1$ ,  $-OR^2$ ,  $-SR^3$ ,  $-OCOR^4$ ,  $-COOR^5$ , and  $-SiR^6R^7R^8$  (here,  $R^1$  to  $R^8$  are a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), may be identical to or different from each other, and are bonded to a substitutable position of a benzene ring having a branched skeleton, and p is an integer of 0 to 4).

7. (Currently amended): The metal coordination compound-containing copolymer according to ~~any one of Claims 1 to 6~~ Claim 1, wherein in the Formulae (1) to (12) ring A is pyridine, quinoline, benzoxazole, benzothiazole, benzimidazole, benzotriazole, imidazole, pyrazole, oxazole, thiazole, triazole, benzopyrazoletriazine, or isoquinoline, which may have a substituent that is the same as the groups defined by  $X_1$  to  $X_7$ .

8. (Currently amended): The metal coordination compound-containing copolymer according to ~~any one of Claims 1 to 7~~ Claim 1, wherein in the Formulae (1) to (12) at least one of

X<sub>1</sub> to X<sub>7</sub> and the substituent of ring A defined as being the same as X<sub>1</sub> to X<sub>7</sub> is a fluorine atom or a trifluoromethyl group.

9. (Currently amended): The metal coordination compound-containing copolymer according to ~~any one of Claims 1 to 8~~ Claim 1, wherein in the Formulae (1) to (12) M is iridium.

10. (Currently amended): A polymer composition comprising the metal coordination compound-containing copolymer according to ~~any one of Claims 1 to 9~~ Claim 1 and a conjugated or non-conjugated polymer.

11. (Currently amended): An organic electroluminescent device fabricated using the metal coordination compound-containing copolymer according to ~~any one of Claims 1 to 9 or the polymer composition according to Claim 10~~ Claim 1.

12. (New): An organic electroluminescent device fabricated using the polymer composition according to Claim 10.